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STEP

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TITLE: New ternary compounds with a structure of the type  
 $\text{MnCu}_2\text{Al}$

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TEXT: The authors discuss ternary systems A-B-C, where A and B are transition metals and C are elements of the IIIB, IVB and VB groups of the periodic table. The aim of the present work is to investigate analogous systems in which C is gallium. Compounds of this type are found, where A = Ti, V and B = Fe, Co, Ni. The structure of the compounds resembles that of  $\text{MnCu}_2\text{Al}$ , and the lattice constants are given in tabular form. The space group is  $\text{Fm}_3\text{m} - \text{O}_h^5$ . It is shown that in the systems Ta(Nb, Mo) - Fe(Co, Ni) - Ga, and Sc(Zr) - Ni - Ga, similar compounds do not exist. The results are obtained using x-ray methods on alloys of metals of purity not less than 99.9 %, fused in an atmosphere of inert gas at 600°C. There are 3 tables.  
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New ternary compounds with a ...

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